

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D130-780 REV. B
AND INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-130-780 REV. 1

REF. TCCA STC: SH93-88

REF. FAA STC: SR00098NY

REF. EASA STC: EASA.IM.R.S.01292

1.0 PURPOSE

This service instruction is intended for customers wishing to install the D130-780-041 Spacepod and D130-794-021 Auxiliary Fuel Tank simultaneously.

2.0 INSTALLATION POCEDURE

Note: The following documents are required and referenced throughout this service instruction as follows:

Manual	Description	Applicable STC
IIN-D130-780	Installation Instructions	SH93-88 (TCCA)
ICA-D130-780	Instruction for Continuous Airworthiness	SR00098NY (FAA) EASA.IM.R.S.01292 (EASA)
IIN-D350-794	Installation Instructions	SH05-4 (TCCA)
ICA-D350-794	Instruction for Continuous Airworthiness	10031514 (EASA)

2.1 PREPARATION

As applicable, perform the following steps:

- 2.1.1 If not installed, install the Spacepod in accordance with IIN-D130-780.
- 2.1.2 If installed or once installation is complete, remove the Spacepod with the exception of the D3815-041 forward and aft web in accordance with ICA-D130-780. Remove Spacepod Door per ICA-D130-780.
- 2.1.3 Install the D130-794-021 Auxiliary Fuel Tank in accordance with IIN-D350-794 and then remove the D4055-041 Fuel Tank. The installation of D4006-041 will not be necessary. Refer to Step 2.3 of this service instruction.

2.2 MODIFYING THE SPACEPOD FLOOR:

Refer to Figure 1 of this service instruction.

- 2.2.1 Temporarily install the Spacepod without the door over the D3815-041 webs using 8 countersunk screws for alignment purposes only (nuts and washers are not required at this point).
- 2.2.2 Raise the Spacepod Floor over the D4004-043 Side Restraint Angle Bracket and D4005-1 Aft Floor Gutter Angle of the auxiliary fuel tank.
- 2.2.3 Transfer mark the location of these items onto the Spacepod Floor.
- 2.2.4 Remove the Spacepod from the aircraft.

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BY: 
D. SHEPHERD (DE # 02)

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CERT. NO.: SH93-88
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A	NEW ISSUE	MB	11.06.07
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DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. A
MFG. APPR.		DSI 9562	SHEET 1 OF 5
APPROVED		TITLE	SCALE
DE APPR.		AUX TANK/SPACEPOD COMPATIBILITY NTS	
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- 2.2.5 Trim Spacepod floor to provide 0.50" clearance around the D4005-1 Aft Floor Bracket, D4004-043 Side Bracket, and D4055-041 Fuel Tank.
- 2.2.6 Remove the Spacepod D3815-041 forward and aft webs. Trim D3815-041 Aft Web per Figure 3 Detail A of this service instruction.
- 2.2.7 Install the D4055-041 Fuel Tank in the cargo compartment.
NOTE: If the aircraft is equipped with ECL Aux Airframe Fuel Filter Drain Hose, it is acceptable to procure from Eurocopter and install P/N ESK-1324 elbow fitting to eliminate interference of drain hose with D4055-041 Fuel Tank.
- 2.2.8 Re-install the Spacepod D3815-041 forward and aft webs.
- 2.2.9 Re-install Spacepod. Locate seven Ø0.191" holes approx. as shown in Figure 1 onto Spacepod floor and transfer mark onto top surface of the baggage compartment floor. Ensure that the holes marked in the compartment floor are clear of any vertical members below the compartment floor. If necessary the hole may be moved within 2" of the marked hole as required by maintaining a minimum edge distance of 0.38". Remove the Spacepod.
NOTE: A minimum of ten fasteners is required to secure the Spacepod floor to the aircraft compartment. Adjust quantity of seven Ø0.191" holes accordingly.
- 2.2.10 Remove all burrs from Spacepod floor and touch up finish in accordance with Chapter 5 of ICA-D130-780.
- 2.2.11 Install AKS7-1032-130 inserts (or MS21059L3 anchor nuts) in accordance with steps 3.2.15 and 3.2.16 of IIN-D130-780.
- 2.2.12 Install Spacepod with hardware and torque to specific values in accordance with IIN-D130-780.
- 2.2.13 Apply a bead of Proseal 890 all around edges of Spacepod Floor.
- 2.2.14 Re-Installed Spacepod Door in accordance with IIN-D130-780.

2.3 INSTALLATION OF D4420-041/D4420-043 TOP SUPPORT/LEG ASSEMBLIES

To substitute installation of D4006-041 Top Support Assy referred to in IIN-D350-794. Refer to Figure 3 of this service instruction.

- 2.3.1 With tank in position and strapped in with strap P/N D4024-041 (ref. IIN-D350-794), locate D4420-041, D4420-043, and D4422-1/-3 Shims so the centerline of the leg on D4420-041 and the centerline of D4420-043 coincide with two Ø0.250" hole in existing rib assembly.
NOTE: It is acceptable to enlarge existing Ø0.213" hole in D3815-041 Web Assy and D3815-5 Packers to Ø0.250" to locate/fasten the D4420-043 Top Support Leg Assy and substitute the AN3 fasteners in that one location with required AN4 fasteners. Trim D4420-043 Top Support Leg Assy, and D4422-1/-3 Shims as required to eliminate possible interference with existing ribs and stringers.
- 2.3.2 Transfer mark location of D4420-043 onto D4420-041.
- 2.3.3 Remove and using existing hole in D4420-043, transfer drill Ø0.128" hole to D4420-043 and fasten using MS20470AD4 Rivets.
- 2.3.4 Install Top Support/Leg Support Assembly, Spacer, and Inboard and Outboard Shims with hardware provided with DSI-9562-011 Kit. Torque to 50-70 in-lbs.

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2.4 INSTALLATION OF D4423-1 SPLASH GUARD EXTENSION

Refer to Figure 2 of this service instruction.

- 2.4.1 Remove the D4008-7 Washers by unfastening the nuts from the screws. Retain all.
- 2.4.2 Fasten the D4008-7 Washers as shown using the hardware removed at the previous step.
- 2.4.3 Locate the Splash Guard Extension and fasten in place as shown.

3.0 WEIGHT AND BALANCE

There is a negligible weight change associated with the installation of DSI-9562-011 Kit and this modification. However, the weight and balance information of both D130-794-021 and D130-780-041 is cumulative and applicable.

4.0 MAINTENANCE AND CONTINUED AIRWORTHINESS

Refer to ICA-D350-794 for maintenance of the tank and ICA-D130-780 for maintenance of the Spacepod. Note that the Spacepod will need to be removed in order to remove the tank.

5.0 PARTS LIST

Qty -011	Part Number	Description
X	DSI-9562-011	COMPATIBILITY KIT
1	D4420-041	TOP SUPPORT ASSY
1	D4420-043	TOP SUPPORT LEG
7	D4422-1	SHIM
1	D4422-3	SHIM
1	D4423-1	SPLASH GUARD EXTENSION
10	AKS7-1032-130	INSERT
2	AN4-12A	BOLT
10	AN525-10R7	SCREWS
4	MS20470AD4-5	RIVET
2	MS21042-08	NUT (OR MS21042L08)
2	MS21042-4	NUT (OR MS21042L4)
10	MS21059L3	NUTPLATE
2	MS35206S242	SCREW (OR MS27039-08-05)
4	NAS1149DN832J	WASHER
2	NAS1149F0463P	WASHER

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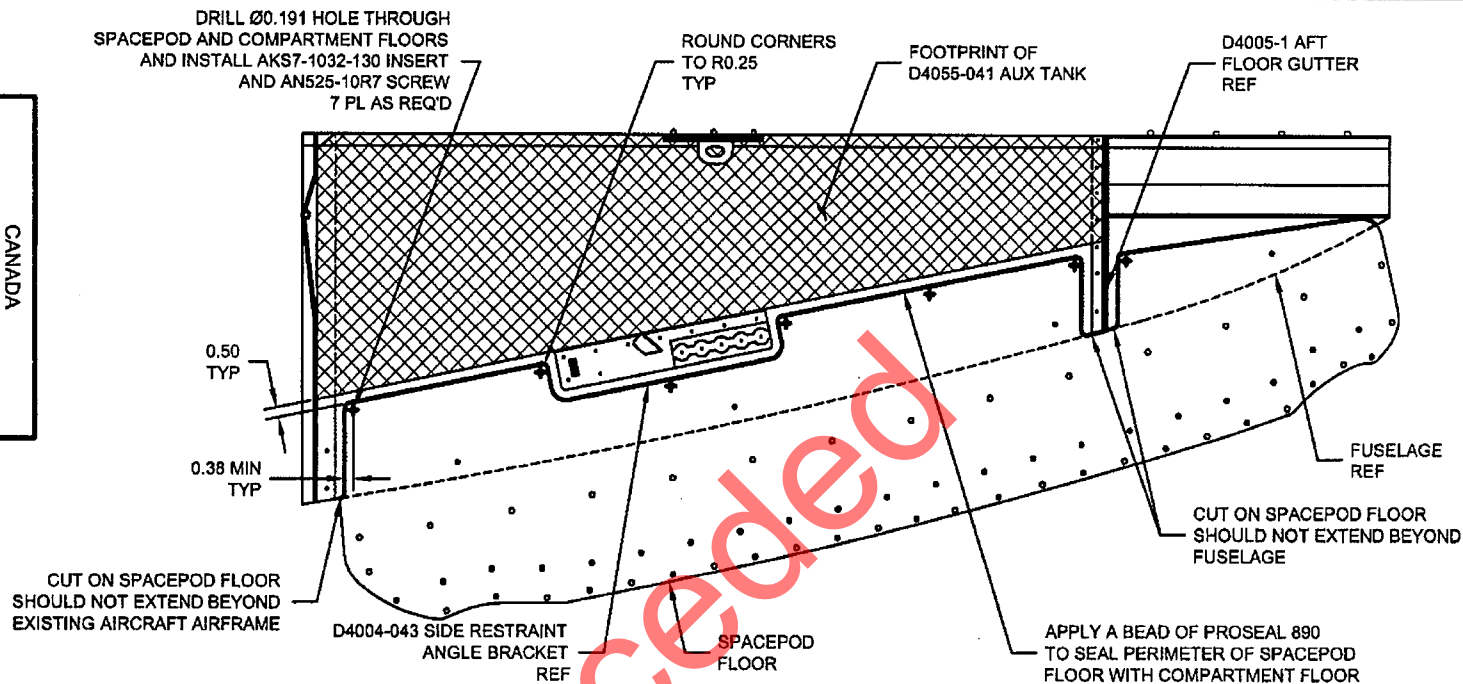


FIGURE 1: TRIMMING OF SPACEPOD FLOOR

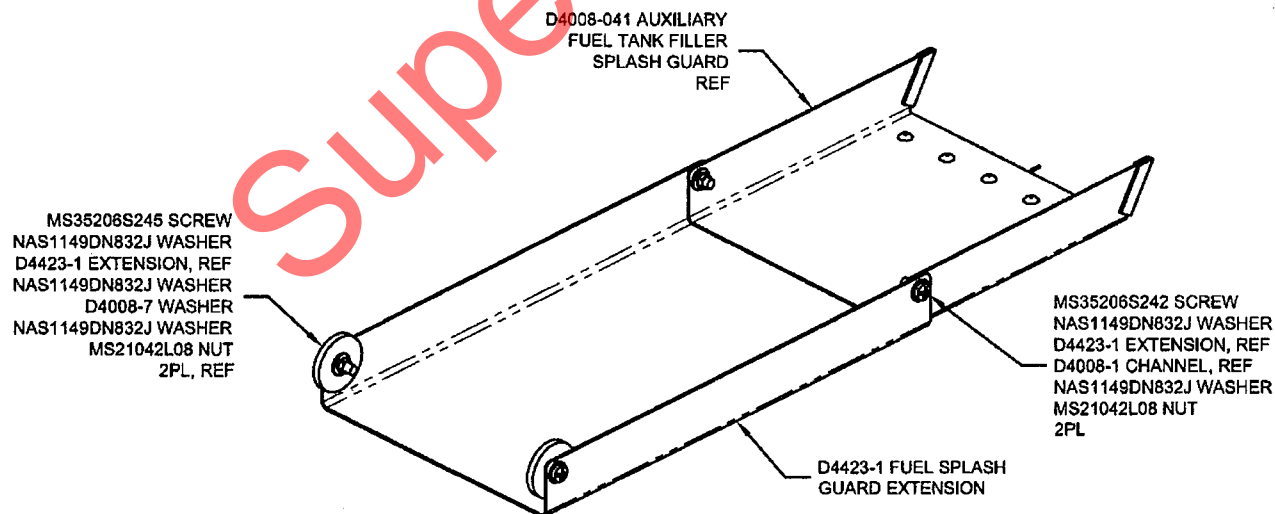


FIGURE 2: INSTALLATION OF FUEL SPLASH GUARD EXTENSION
(SHOWN WITH TANK REMOVED)

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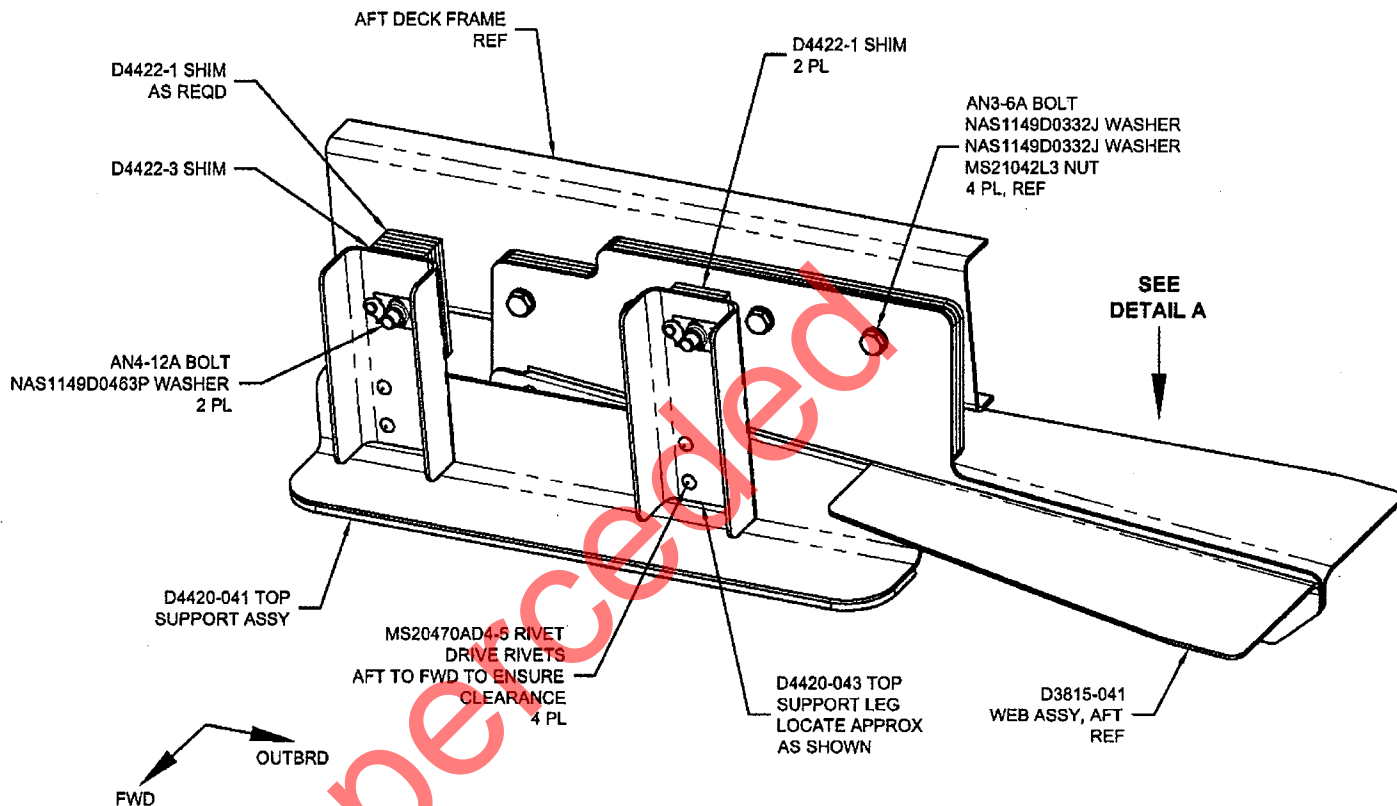
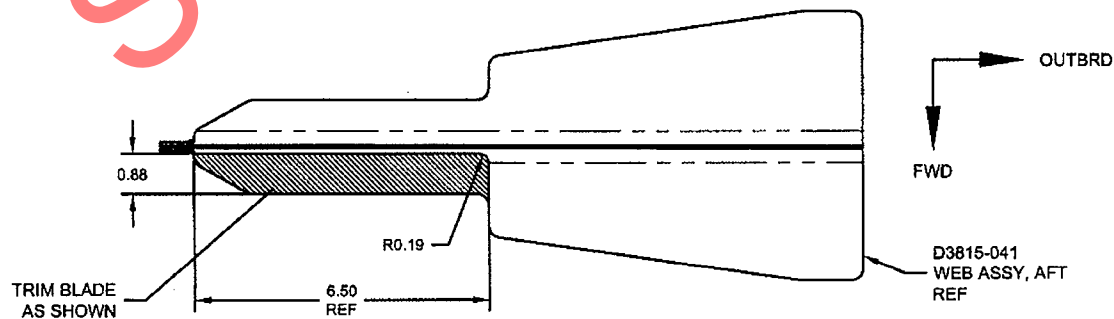


FIGURE 3: INSTALLATION OF TOP SUPPORT ASSY
(SHOWN WITH SPACEPOD, TANK, AIRCRAFT SKIN AND DECK REMOVED FOR CLARITY)



VIEW A: TRIMMING FWD BLADE OF D3815-041

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